#16 3-31-03

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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/867,847A**

DATE: 01/23/2003 P.6
TIME: 07:44:48

Input Set : **A:\50291.005001.SEQLIST.TXT**
Output Set: **N:\CRF4\01232003\I867847A.raw**

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 4 <110> APPLICANT: Chalifour, Robert
 5       Hebert, Lise
 6       Kong, Xianqi
 7       Gervais, Francine
 9 <120> TITLE OF INVENTION: Vaccine for the Prevention and Treatment
10       of Alzheimer's and Amyloid Related Diseases
13 <130> FILE REFERENCE: 50291/005001
15 <140> CURRENT APPLICATION NUMBER: 09/867,847A
16 <141> CURRENT FILING DATE: 2001-05-29
18 <150> PRIOR APPLICATION NUMBER: 09/724,842
19 <151> PRIOR FILING DATE: 2000-11-28
21 <150> PRIOR APPLICATION NUMBER: 60/168,594
22 <151> PRIOR FILING DATE: 1999-11-29
24 <160> NUMBER OF SEQ ID NOS: 65
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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29 <211> LENGTH: 42
30 <212> TYPE: PRT
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
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37 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
38  1               5                   10                  15
39 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
40              20                  25                  30
41 Gly Leu Met Val Gly Gly Val Val Ile Ala
42          35                  40
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 40
47 <212> TYPE: PRT
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
53 <400> SEQUENCE: 2
54 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
55  1               5                   10                  15
56 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
57              20                  25                  30
58 Gly Leu Met Val Gly Gly Val Val
59          35                  40
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 35
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Input Set : A:\50291.005001.SEQLIST.TXT
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65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
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72 1               5                   10                  15
73 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
74              20                  25                  30
75 Gly Leu Met
76          35
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 28
81 <212> TYPE: PRT
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
87 <400> SEQUENCE: 4
88 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
89 1               5                   10                  15
90 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
91              20                  25
94 <210> SEQ ID NO: 5
95 <211> LENGTH: 7
96 <212> TYPE: PRT
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
102 <400> SEQUENCE: 5
103 Asp Ala Glu Phe Arg His Asp
104 1               5
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 7
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
115 <400> SEQUENCE: 6
116 Tyr Glu Val His His Gln Lys
117 1               5
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 6
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
128 <400> SEQUENCE: 7
129 Lys Leu Val Phe Phe Ala
130 1               5
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Output Set: **N:\CRF4\01232003\I867847A.raw**

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135 <212> TYPE: PRT
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138 <220> FEATURE:
139 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
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142 Tyr Glu Val His His Gln Lys Leu Val Phe Phe Ala
143 1               5                   10
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 9
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
154 <400> SEQUENCE: 9
155 His His Gln Lys Leu Val Phe Phe Ala
156 1               5
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 7
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
167 <400> SEQUENCE: 10
168 Val Gly Gly Val Val Ile Ala
169 1               5
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 6
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
180 <400> SEQUENCE: 11
181 Lys Ile Val Phe Phe Ala
182 1               5
185 <210> SEQ ID NO: 12
186 <211> LENGTH: 7
187 <212> TYPE: PRT
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
193 <400> SEQUENCE: 12
194 Lys Lys Leu Val Phe Phe Ala
195 1               5
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 6
200 <212> TYPE: PRT
201 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 01/23/2003
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Input Set : A:\50291.005001.SEQLIST.TXT
Output Set: N:\CRF4\01232003\I867847A.raw

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203 <220> FEATURE:
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212 <211> LENGTH: 6
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
219 <400> SEQUENCE: 14
220 Ala Phe Phe Val Leu Lys
221  1               5
224 <210> SEQ ID NO: 15
225 <211> LENGTH: 4
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
232 <400> SEQUENCE: 15
233 Lys Leu Val Phe
234  1
237 <210> SEQ ID NO: 16
238 <211> LENGTH: 6
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
245 <400> SEQUENCE: 16
246 Lys Ala Val Phe Phe Ala
247  1               5
250 <210> SEQ ID NO: 17
251 <211> LENGTH: 5
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
258 <400> SEQUENCE: 17
259 Lys Leu Val Phe Phe
260  1               5
263 <210> SEQ ID NO: 18
264 <211> LENGTH: 6
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
271 <400> SEQUENCE: 18
272 Lys Val Val Phe Phe Ala
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RAW SEQUENCE LISTING   DATE: 01/23/2003
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Input Set : A:\50291.005001.SEQLIST.TXT
Output Set: N:\CRF4\01232003\I867847A.raw

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    276  <210> SEQ ID NO: 19
    277  <211> LENGTH: 6
    278  <212> TYPE: PRT
    279  <213> ORGANISM: Artificial Sequence
    281  <220> FEATURE:
    282  <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
W--> 284  <221> NAME/KEY: MOD_RES
    285  <222> LOCATION: 6
    286  <223> OTHER INFORMATION: Amidation
W--> 288  <400> 19
    289  Lys Ile Val Phe Phe Ala
    290  1                  5
    293  <210> SEQ ID NO: 20
    294  <211> LENGTH: 6
    295  <212> TYPE: PRT
    296  <213> ORGANISM: Artificial Sequence
    298  <220> FEATURE:
    299  <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
W--> 301  <221> NAME/KEY: MOD_RES
    302  <222> LOCATION: 6
    303  <223> OTHER INFORMATION: Amidation
W--> 305  <400> 20
    306  Lys Leu Val Phe Phe Ala
    307  1                  5
    310  <210> SEQ ID NO: 21
    311  <211> LENGTH: 6
    312  <212> TYPE: PRT
    313  <213> ORGANISM: Artificial Sequence
    315  <220> FEATURE:
    316  <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
W--> 318  <221> NAME/KEY: MOD_RES
    319  <222> LOCATION: 6
    320  <223> OTHER INFORMATION: Amidation
W--> 322  <400> 21
    323  Lys Phe Val Phe Phe Ala
    324  1                  5
   .327  <210> SEQ ID NO: 22
    328  <211> LENGTH: 6
    329  <212> TYPE: PRT
    330  <213> ORGANISM: Artificial Sequence
    332  <220> FEATURE:
    333  <223> OTHER INFORMATION: Synthetic, All D peptides or peptidomimetics
W--> 335  <221> NAME/KEY: MOD_RES
    336  <222> LOCATION: 6
    337  <223> OTHER INFORMATION: Amidation
W--> 339  <400> 22
    340  Ala Phe Phe Val Leu Lys
    341  1                  5
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/23/2003
PATENT APPLICATION: **US/09/867,847A**   TIME: 07:44:49

Input Set : **A:\50291.005001.SEQLIST.TXT**
Output Set: **N:\CRF4\01232003\I867847A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:57; Xaa Pos. 4
Seq#:58; Xaa Pos. 5
Seq#:59; Xaa Pos. 4,5
Seq#:60; Xaa Pos. 4
Seq#:61; Xaa Pos. 5
Seq#:62; Xaa Pos. 4,5
Seq#:63; Xaa Pos. 4
Seq#:64; Xaa Pos. 5
Seq#:65; Xaa Pos. 4,5

VERIFICATION SUMMARY   DATE: 01/23/2003
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Input Set : **A:\50291.005001.SEQLIST.TXT**
Output Set: **N:\CRF4\01232003\I867847A.raw**

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L:284 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:288 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:301 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:318 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:322 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:335 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:339 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:352 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:356 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
L:369 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:373 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:386 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:390 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:403 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:407 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26
L:433 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:437 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
L:502 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:506 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
L:519 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:523 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:34
L:536 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:540 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:35
L:553 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:557 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:570 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:574 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:37
L:587 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:591 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:38
L:604 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:608 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
L:621 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:625 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:40
L:638 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:642 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41
L:655 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:659 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
L:672 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:676 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
L:689 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:693 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:706 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:710 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:45
L:723 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:727 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:46
L:740 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:744 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
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Input Set : **A:\50291.005001.SEQLIST.TXT**
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L:757  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:761  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48
L:774  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:778  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49
L:791  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:795  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:808  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:812  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:51
L:825  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:829  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52
L:842  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:846  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53
L:859  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:863  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54
L:876  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:880  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55
L:893  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:897  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56
L:910  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:914  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:57
L:918  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:57
L:919  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:931  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:935  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58
L:939  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58
L:940  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:952  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:956  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59
L:960  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59
L:961  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:973  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:977  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60
L:981  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60
L:982  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:994  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:998  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:1002 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
L:1003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1015 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1019 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62
L:1023 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1036 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1040 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63
L:1044 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1057 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1061 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:64
L:1065 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:64
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```
L:1066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:1078 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1082 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:65
L:1087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
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